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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
ANDREANOF ISLANDS, ALEUTIAN ISLANDS, 08 MARCH 1976

TELEDYNE GEOTECH

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Andreanof Islands, Aleutian Islands, 08 March 1976**

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MAY 1976

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SDCS EVENT REPORT NO. 88

Andreanof Islands, Aleutian Islands, 08 March 1976.

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	02:39:41.3	02:28:48	52 N	177 W	4.6	N/A
Hagfors	02:39:45.2	02:29:03	54 N	177 E	5.4	4.3

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

02:28:31.5 49.6N 179.5W 5.0 4.7

The programs used for LASA, NORSAR and ALPA data recovery are presently undergoing modifications. Information for LASA short-period is reported from their Teleseism Event Report; NORSAR short-period data is obtained from their bulletin. The NORSAR TAL transmission plot included in this report has erroneous scaling factors. The long-period array beam recovery for these stations will be resumed upon completion of these modifications.

RK-ON was not operational during this period.

Short-period signals associated with this event were recorded at WH2YK, CPSO, HN-ME, FN-WV, LASA and NORSAR. All SP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal SP channels at WH2YK, CPSO, HN-ME and FN-WV were rotated.

Long-period signals were recorded at WH2YK, CPSO, HN-ME and FN-WV. All LP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal LP channels at WH2YK, CPSO, HN-ME and FN-WV were rotated.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response).

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG MN SECS			SHORT - PERIOD	LONG - PERIOD
ALPA	Alaska	65 14 00.0	N	626	None	31300
		147 44 36.0	W			
CPS0	McMinnville, Tennessee	35 35 41.4	N	574	6480 V 7515 H	SL210 V SL220 H
		085 34 13.5	W			
FN-WV	Franklin, West Virginia	38 32 58.0	N	910	KS36000	KS36000
		079 30 47.0	W			
LASA	Billings, Montana	46 41 19.0	N	744	HS10	7505A V 8700C H
		106 13 20.0	W			
HN-ME	Houlton, Maine	46 09 43.0	N	213	KS36000	KS36000
		067 59 09.0	W			
NORSAR	Kjeller, Norway	60 49 25.4	N	379	HS10	7505A V 8700C H
		010 49 56.5	E			
RK-ON	Red Lake, . Ontario	50 50 20.0	N	366	18300	SL210 V SL220 H
		093 40 20.0	W			
WH2YK	White Horse, Yukon	60 41 41.0	N	853	18300	SL210 V SL220 H
		154 58 02.0	W			

Note: The orientation of the radial instruments at FN-WV is assumed to be $16^\circ + 5^\circ$ based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

HYPOCENTER DETERMINATION

INPUT FOR EVENT 8 MAR 76
 02:28:48.0 52.000N 177.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
WH2YK	02 34 16.2	0.4	0.4	27.2	48.9
LAO	02 37 03.8	-0.8	-0.9	47.2	64.0
CPSO	02 39 20.5	0.6	0.6	66.2	62.7
HN-ME	02 39 28.5	-0.6	-0.6	67.7	44.4
PN-WV	02 39 28.7	0.4	0.5	67.5	56.7
NAO	02 39 41.3	-0.0	-0.0	69.6	354.6

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
02:28:29.3	49.538N	179.493W	-12. CALC	0.6	5	6
02:28:31.5	49.575N	179.460W	0. REST	0.6	3	6

CALC	REST
1 . 0	1 . 0
0 . 3	0 . 3
0 . 0 . 2	0 . 0 . 2
0 . 0 . 0 . 0	0 . 0 . 0 . 0
0 . 0	0 . 0
0 . 0	0 . 0

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.06
 MAJOR 117.8KM. MINOR 44.2KM. AZ= 18 AREA= 16341 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 8 MAR 76
 02:28:48.0 52.000N 177.000W 0KM.

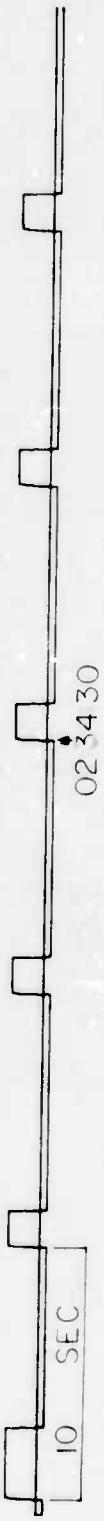
STA.	PHASE	ARRIVAL			INST	PER	A/T	MAGNITUDE			DIR	DIST
								MB	MS			
WH2YK	EP	02	34	16.2	SPZ	0.5	4.	3.82				27.2
WH2YK	LQ	02	43	08.0	LPT	25.0	81.					
WH2YK	LR	02	45	28.0	LPZ	19.0	237.		4.93			27.2
LAO	EP	02	37	03.8	SAB	99.9	9999.					
CPSO	EP	02	39	20.5	SPZ	1.0	39.	5.29				66.2
CPSO	LQ	03	03	14.0	LPT	25.0	18.					
CPSO	LR	03	05	18.0	LPZ	23.0	42.		4.56			66.2
PN-WV	EP	02	39	28.7	SPZ	1.2	37.	5.27				67.5
PN-WV	LQ	03	04	09.0	LPT	22.0	20.					
PN-WV	LR	03	10	20.0	LPZ	19.0	53.		4.67			67.5
HN-ME	EP	02	39	28.5	SPZ	1.1	131.	5.82				67.7
HN-ME	LQ	03	02	59.0	LPT	27.0	44.					
HN-ME	LR	03	12	04.0	LPZ	18.0	44.		4.59			67.7
NAO	EP	02	39	41.3	AB	1.2	14.	4.78				69.6
ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSDV	LPSVA			
02:28:29.3	49.538N	179.493W	0. CALC	5.00	0.75	5	4.69	0.2	4			
02:28:31.5	49.575N	179.460W	0. REST	5.00	0.75	5	4.69	0.2	4			

WH2YK 8 MAR 76

02:34:16.2



TIME

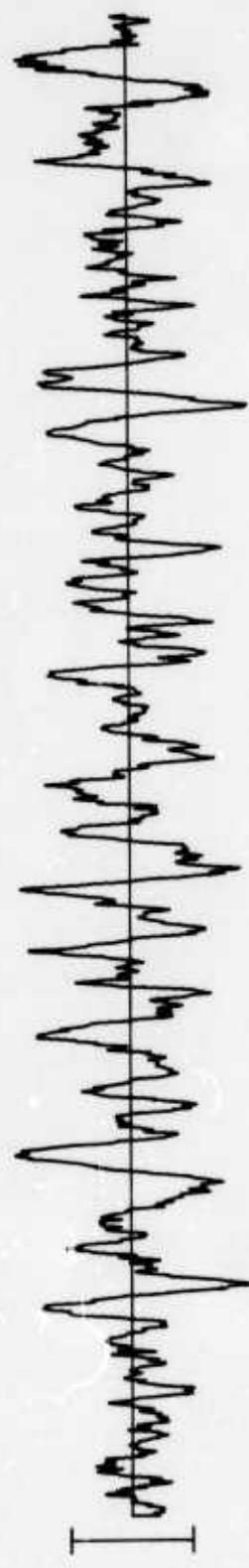


CPSO 8 MAR 76

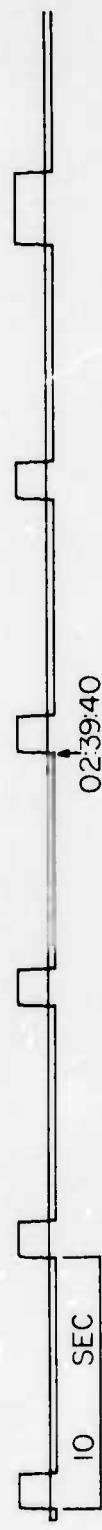


HN-ME 8 MAR 76

02:39:28.5



80.



02:39:40

FN-WV 8 MAR 76

02:39:28.7

SPZ
25.25 MU



SPR
10.44 MU



9.

SPT
9.84 MU



TIME



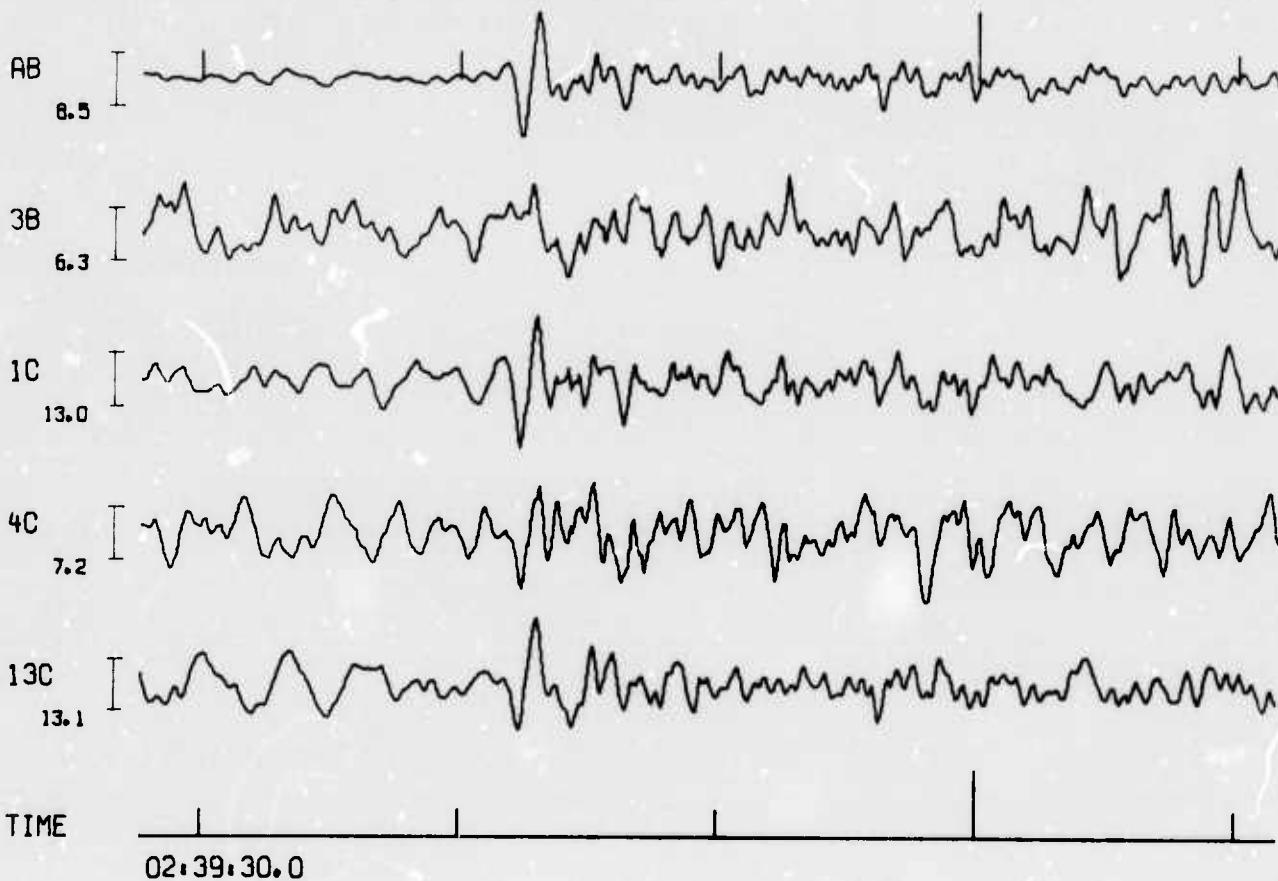
02:39:40

03/03/76



EPX 93270 NORSAR 8 MAR 1976
ORIGIN 02:28:48 51.6N 177.2W 4.6 MB
7 ANDREANOF IS., ALEUTIANS
 $\Delta = 69.6$ BAZ = 7.9 C = 17.9 KM/SEC
ERRORS = 9

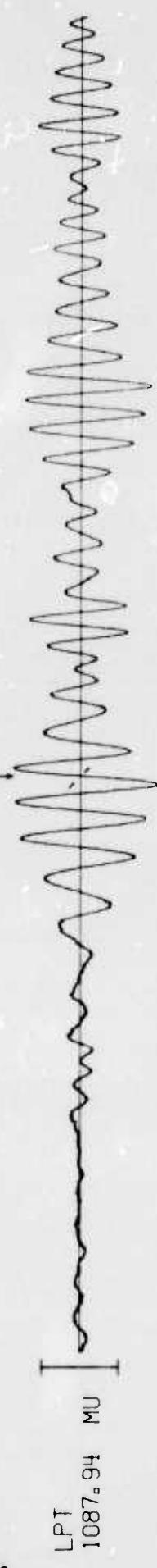
NM



10.

WH2YK 8 MAR 76

0245:28



CPSO 8 MAR 76

LPT
498.77 MU



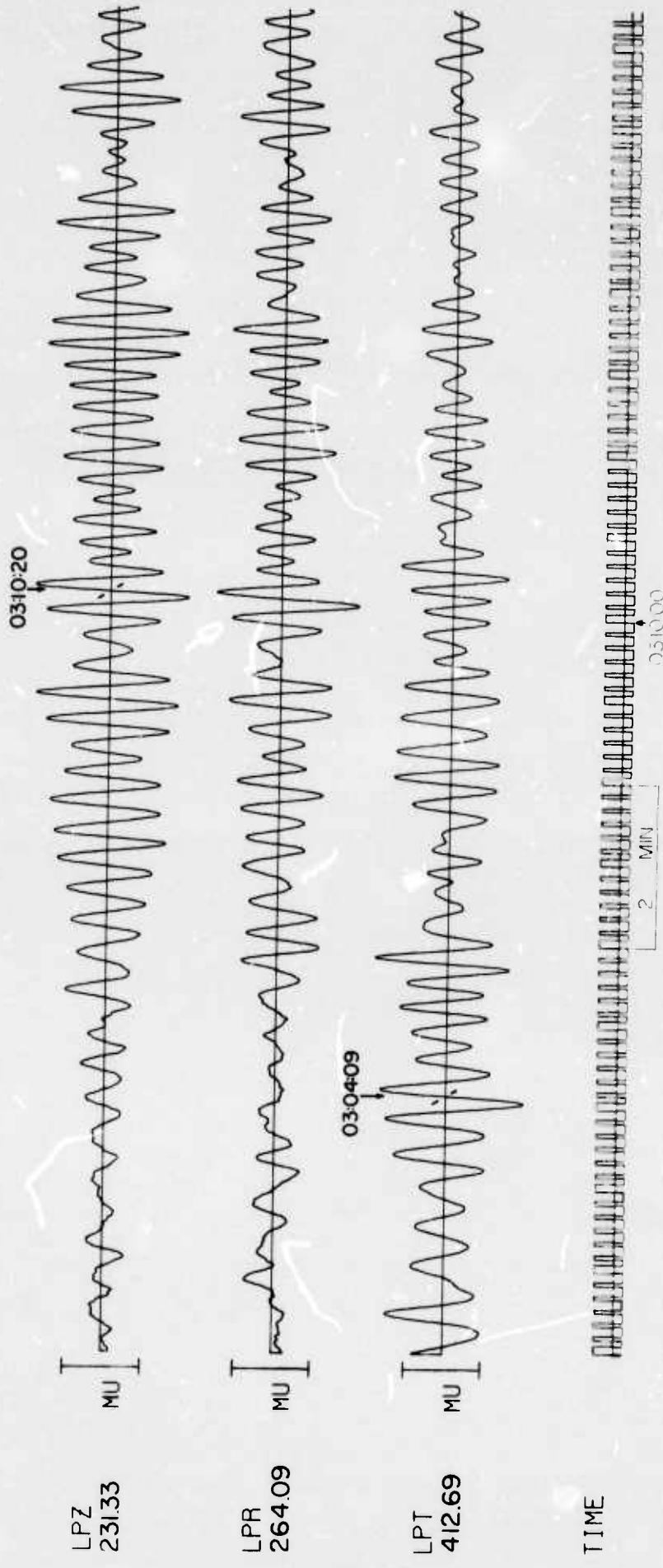
LPT
366.64 MU



TIME

12.

FN-WV 8 MAR 76



HN-ME 8 MAR 76

